

JAVA PROGRAMS:

Write a java program to print line of text.

Program: (Welcome.java)

```
class Welcome
{
    public static void main(String args[])
    {
        System.out.println("Welcome to Java Programming");
    }
}
```

Output:

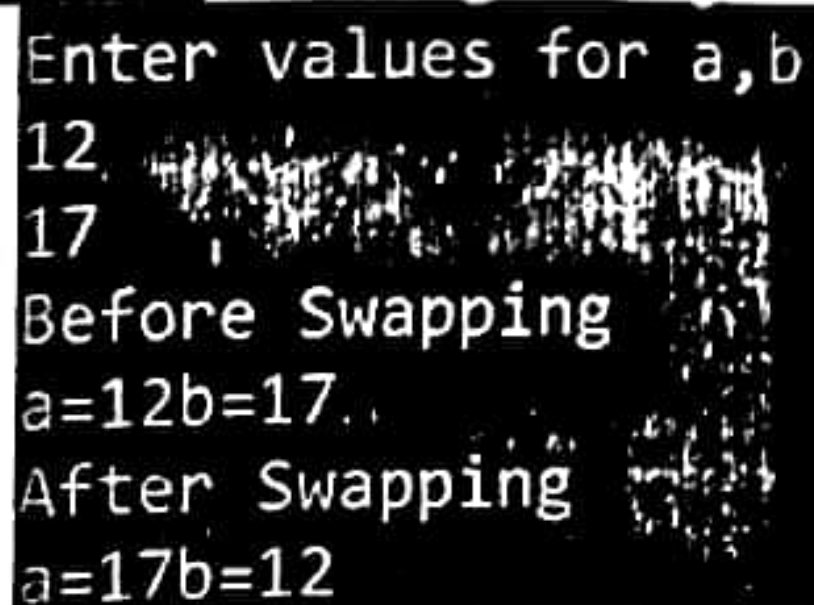


Write a java program to swap two numbers without using temporary (third) variable.

Program: (Swap.java)

```
import java.util.*;
class Swap
{
    public static void main(String args[])
    {
        int a,b;
        Scanner in=new Scanner(System.in);
        System.out.println("Enter values for a,b");
        a=in.nextInt();
        b=in.nextInt();
        System.out.println("Before Swapping");
        System.out.println("a="+a+"b="+b);
        a=a+b;
        b=a-b;
        a=a-b;
        System.out.println("After Swapping");
        System.out.println("a="+a+"b="+b);
    }
}
```

Output:



Write a java program to find area of a circle.

Program: (CircleArea.java)

```
import java.util.*;
class CircleArea
{
    public static void main(String args[])
    {
        double r,area;
        Scanner in=new Scanner(System.in);
        System.out.println("Enter radius of the circle");
        r=in.nextDouble();
        area=3.14*r*r;
        System.out.println("area of circle="+area);
    }
}
```

Output:

```
Enter radius of the circle
10
area of circle=314.0
```

Write a java program to find Temperature conversion.

Program: (TempConv.java)

```
import java.util.*;
class TempConv
{
    public static void main(String[] args)
    {
        float temp;
        Scanner in=new Scanner(System.in);
        System.out.println("Enter temperature in Fahrenheit");
        temp=in.nextFloat();
        temp=((temp- 32)*5)/9;
        System.out.println("temperature in Celsius = " + temp);
    }
}
```

Output:

```
Enter temperature in Fahrenheit
100
temperature in Celsius = 37.77778
```

Write a java program to find roots of a quadratic equation

Program: (Roots.java)

```
import java.util.*;
class quadraticdemo
{
```



```

public static void main(String[] args)
{
int a, b, c;
double r1, r2, D;
Scanner s = new Scanner(System.in);
System.out.println("Given quadratic equation:  $\bar{a}x^2 + bx + c$ ");
System.out.print("Enter a:");
a = s.nextInt();
System.out.print("Enter b:");
b = s.nextInt();
System.out.print("Enter c:");
c = s.nextInt();
D = b * b - 4 * a * c;
if(D > 0)
{
System.out.println("Roots are real and unequal");
r1 = ( - b + Math.sqrt(D))/(2*a);
r2 = (-b - Math.sqrt(D))/(2*a);
System.out.println("First root is:"+r1);
System.out.println("Second root is:"+r2);
}
else if(D == 0)
{
System.out.println("Roots are real and equal");
r1 = (-b+Math.sqrt(D))/(2*a);
System.out.println("Root:"+r1);
}
else
{
System.out.println("Roots are imaginary");
}
}
}

```

Output1:

```

Given quadratic equation:  $ax^2 + bx + c$ 
Enter a:1
Enter b:5
Enter c:2
Roots are real and unequal
First root is:-0.4384471871911697
Second root is:-4.561552812808831

```

Output2:

Given quadratic equation: $ax^2 + bx + c$
Enter a:1
Enter b:1
Enter c:1
Roots are imaginary

Output3:

Given quadratic equation: $ax^2 + bx + c$
Enter a:1
Enter b:2
Enter c:1
Roots are real and equal
Root:-1.0

Write a java program to find whether the given number is even or odd

Program: (EvenOdd.java)

```
import java.lang.*;
import java.io.*;
class EvenOdd
{
    public static void main(String args[]) throws IOException
    {
        int n;
        BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
        System.out.println("Enter value for n");
        n=Integer.parseInt(br.readLine());
        if(n%2==0)
            System.out.println("Even Number");
        else
            System.out.println("Odd Number");
    }
}
```

Output1:

Enter value for n
132
Even Number

Output2:

Enter value for n
771
Odd Number

Write a java program using ternary operator to find maximum of three numbers

Program: (Max3.java)

```
import java.lang.*;
import java.io.*;
```



```

class Max3
{
    public static void main(String args[]) throws IOException
    {
        int a,b,c,ternary;
        BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
        System.out.println("Enter values for a,b,c");
        a=Integer.parseInt(br.readLine());
        b=Integer.parseInt(br.readLine());
        c=Integer.parseInt(br.readLine());
        ternary=(a>b&& a>c)?a:
                (b>a&& b>c)?b:c;
        System.out.println("Greatest of three numbers="+ternary);
    }
}

```

Output:

```

Enter values for a,b,c
-34
22
11
Greatest of three numbers=22

```

Write a java program that inputs an integer, 'n' from the command line and displays the string "1+2+3+...+n=sum" and also compute the sum.

Program: (Summation.java)

```

class Summation
{
    public static void main(String args[])
    {
        int i,sum=0,n;
        n=Integer.parseInt(args[0]);
        for(i=1;i<=n;i++)
        {
            sum=sum+i;
        }
        System.out.println("1+2+3+.....+"+n+"="+sum);
    }
}

```

Output:

```

F:\Java Programs>javac Summation.java
F:\Java Programs>java Summation 10
1+2+3+.....+10=55

```


Write a java program to find whether the given number is Palindrome or not

Program: (Palindrome.java)

```
import java.io.*;
class Palindrome
{
    public static void main(String args[]) throws IOException
    {
        int rev=0,n,m,d;
        BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
        System.out.println("Enter value for n");
        n=Integer.parseInt(br.readLine());
        m=n;
        while(n>0)
        {
            d=n%10;
            rev=(rev*10)+d;
            n=n/10;
        }
        if(m==rev)
            System.out.println("Palindrome");
        else
            System.out.println("Not Palindrome");
    }
}
```

Output1:

```
Enter value for n
1234
Not Palindrome
```

Output2:

```
Enter value for n
12321
Palindrome
```

Write a java program to print the given integer number in words

Program: (NumberWord.java)

```
import java.io.*;
class NumberWord
{
    public static void main(String args[]) throws IOException
    {
        int rev=0,n,m,d,k;
        BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
        System.out.println("Enter value for n");
        n=Integer.parseInt(br.readLine());
    }
}
```

```

m=n;
while(n>0)
{
    d=n%10;
    rev=(rev*10)+d;
    n=n/10;
}
while(rev>0)
{
    k=rev%10;
    switch(k)
    {
        case 0: System.out.print("Zero "); break;
        case 1: System.out.print("One "); break;
        case 2: System.out.print("Two "); break;
        case 3: System.out.print("Three "); break;
        case 4: System.out.print("Four "); break;
        case 5: System.out.print("Five "); break;
        case 6: System.out.print("Six "); break;
        case 7: System.out.print("Seven "); break;
        case 8: System.out.print("Eight "); break;
        case 9: System.out.print("Nine "); break;
        default: System.out.print("Enter between 0-9");
    }
    rev=rev/10;
}
}

```

Output:

```

Enter value for n
1234
One Two Three Four

```